

Please amend the specification as follows:

1.) Please delete the abstract, and replace with the following abstract:

“An apparatus which [[for amplifying the rotational force of]] can be use with a rotating object to assist in the driving of the rotating object. The apparatus using gravitational force to conserve energy. The apparatus comprising a housing member having a chamber defined therein and a rotational unit placed within the chamber. The rotational unit comprising an elongated member having one or more rods placed transversely through the elongated member. The elongated member being mounted off-centered within the chamber in a manner to allow for rotation thereof. The chamber being sized and shaped so that as the elongated member rotates, the rods slide and rotate along its respective axis and imparts gravitational force [[additional rotational force]] to further drive the rotation of the elongated member.”

2.) Please delete on page 1, the title of the application, and replace with the following title:

“A ROTATIONAL MOVEMENT [[AMPLIFYING]] APPARATUS WHICH USES GRAVITATIONAL FORCE”

3.) Please delete on page 1, the paragraph beginning with “This invention generally...” and ending with “...axles of wheels, and so on”, and replace with the following paragraph:

“This invention generally relates to [[an]] a rotational movement apparatus [[ for amplifying the rotational movement of]] capable of use with rotating devices. More particularly the apparatus of the present invention relates to an apparatus which [[amplifies]] is able to conserve energy through gravitational force in a [[the]] rotational movement of the apparatus and which can be used to assist the driving of rotating devices such as windmills, wheels, propellers, axle of wheels, and so on.”

4.) Please delete on page 2 and 3, the paragraph beginning with “None of the prior art ...” and ending with “...rotating devices”, and replace with the following paragraph:

“None of the prior art teaches an apparatus as taught by the present invention. The apparatus of the present invention conserves the amount of energy necessary to rotate a rotating portion of the apparatus by [[generates rotational force]] being structured to [[utilizing]] utilize gravitational [[forces]] force. ~~The apparatus of the present invention can be coupled with rotating devices to reduce the power necessary to rotate the rotating portions of these rotating devices.~~ “

5.) Please delete on page 3, the paragraph beginning with “Thus, it is an...” and ending with “...rotate devices”, and replace with the following paragraph:

“Thus, it is an object of the present invention to provide an apparatus which conserves energy through use of gravitational [[generates rotational]] force. It is another object of the present invention to provide an apparatus, which assists in the driving of rotating devices. It is yet another object of the present invention to reduce the usage of power necessary to rotate devices.”

6.) Please delete on page 3 and 4, the paragraph beginning with “The present invention...” and ending with “...within the chamber”, and replace with the following paragraph:

“The present invention is an apparatus for [[amplifying the rotational force]] assisting the driving of a rotating object. The apparatus comprises a housing member having a chamber defined therein and a rotational unit placed within the chamber. The rotational unit comprises an elongated member having one or more rods placed transversely through the elongated member. In the embodiment shown, a plurality of holes are placed through the elongated member for placement of a corresponding rod therethrough. The elongated member is mounted within the chamber in a manner to allow for rotation thereof. As the elongated member rotates within the chamber, each rod rotates along an axis transverse to the elongated member and slides back and forth within the corresponding hole. As each rod rotates within its axis, the ends make contact with the interior surface of the housing member. The ends of each rod are designed for least friction with the interior surface of the housing member within the chamber.”

7.) Please delete on page 4, the paragraph beginning with “The chamber...” and ending with “...the rotating device”, and replace with the following paragraph:

“As the elongated member rotates, the rods slide and rotate along its respective axis and imparts ~~[[additional rotational]]~~ gravitational force to the rotation of the elongated member. The elongated member can be coupled to a rotating device to ~~[[provide amplification]]~~ assist in driving ~~[[of]]~~ the ~~[[rotational force]]~~ rotation of ~~[[to]]~~ the rotating device. ”

8.) Please delete on page 5 and 6, the paragraph beginning with “The present...” and ending with “...elongated member 20”, and replace with the following paragraph:

“The present invention illustrated in Figures 2 to 5 is an apparatus 10 for assisting in driving the ~~[[amplifying]]~~ rotational movement of miscellaneous rotating objects. The apparatus 10 comprises a housing member 15 as shown in Figure 2 having a chamber defined therein. In addition, a rotational unit 17 is placed within the chamber of the housing member 15. Figure 2 shows a cross-sectional side view of the apparatus 10, and Figure 3 shows an isolated perspective view of the rotational unit 17. As shown in figures 2 to 4, the rotational unit 17 comprises an elongated member 20 extending longitudinally through the chamber of the housing member 15 and at least one rod 22 placed transversely through the elongated member 20. The elongated member 20 is mounted to allow for rotation thereof. Although the elongated member 20 as shown in the present illustration is solid, the elongated member 20 can be tubular. The desired effect will be produced with at least one rod 22; however, for increased utility, two or more rods 22 are preferred. For purposes of illustration, an embodiment utilizing four rods 22 is shown and described herein. For maximum result, each rod 22 is of uniform size, shape, and length relative to each other. In addition, each rod 22 is of a uniform density throughout the length. The ends 25 of each rod 22 should be designed for least friction with the interior surface 30 of the housing member 15 within the chamber. As such, the ends 25 of the rod 22 can be tapered to have a sharp tip, or have a rounded tip as shown in the illustrations. In the alternative, the ends 25 of the rod 22 can have a bearing mounted at the tip thereof (not shown). The rods 22 are placed through the elongated member 20 so that each rod 22 can slide freely therethrough. To effectuate the sliding motion, in the illustrations shown, each rod is placed through a corresponding hole extending through the elongated member 20.”

9.) Please delete on page 7, the paragraph beginning with “The exterior surface...” and ending with “...of the chamber”, and replace with the following paragraph:

“The exterior surface shape of the housing member 15 is not a limiting factor and as such need not be in any particular shape; however, the chamber defined therein must be sized and shaped corresponding to the rotation of the rotational unit 17. As shown in figure 2, the interior surface 30 of the housing member 15 defining the chamber has a transverse cross-section shaped in the form of a circle having a slightly elongated central section. The description of the shape of the interior surface 30 of the housing member 15 is described in more detail in the description of Figure 5 in the paragraphs to follow. As shown in figure 2 and 4, the elongated member 20 is positioned off-centered relative to a center 33 of the end 35 of the chamber.”

10.) Please delete on page 7, 8, and 9, the paragraph beginning with “Figure 5 illustrates...” and ending with “...and Table 2”, and replace with the following paragraph:

“Figure 5 illustrates the transverse cross-sectional shape of the interior surface 30 defining the chamber from figure 2. As shown, the shape is essentially two semi-circles of radius R, separated by a central section 38 having a length twice the distance of the distance between point A and point C. As shown, the shape can be separated into a top semi-circle 61 and a lower-semi-circle 62, positioned below and inverted relative the top semi-circle 61, joined by a pair of opposed line segments 65 forming the central section 38. The top semi-circle 61 has a center of radius B and radius R, and the lower semi-circle 62 has a center of radius D with radius R. The top semi-circle 61 for purposes of illustration is the semi-circle above line P in figure 5, and the lower semi-circle 62 for purposes of illustration is the semi-circle below line V. The line segments 65 are illustrated in figure 5 as the portion of the interior surface between line P and line V and each line segment 65 connects a corresponding end E of the top semi-circle 61 to a corresponding end E' of the lower semi-circle 62. The line segments 65 are straight as shown in the illustrations. Point O is the center of the [[end of the]] shape shown in figure 5, and point A is the desired center point on which the elongated member should be mounted for rotation

within the chamber. That is, the center of the axis of rotation of the elongated member is desirably point A, which is off-centered relative to the center Point O. The shape shown in Figure 5 is made first by selecting a random point identified in this figure as K. Thereafter an arc J having a predetermined radius R is drawn with point K as the center. A line M is drawn from K through the arc J to form point A. A primary vertical line segment AK is the segment of line M, which connects point A to point K. A radius line [[line]] N is drawn from point K through the arc to form an angle  $\alpha$  with line M and to form a point B with the arc J. Line P is drawn through point B perpendicular to line M to form point C at the intersection between lines M and P. Central vertical line [[Line]] Q is drawn through point B perpendicular to line P. Line S is drawn through point A perpendicular to line M to form point O at the intersection between lines Q and S. The distance between point B and O is taken along line Q from point O to find point D on line Q. Line V is drawn through point D perpendicular to line Q. With B as the center of radius, a semicircle of radius R is drawn to form the upper half of the shape, which is the top semi-circle 61. [[and with]] With D as the center of radius, a semicircle of radius R is drawn to form the lower half of the shape, which is the lower semi-circle 62. The top semi-circle defines a midpoint T thereon dividing the top semi-circle into equal halves. The diameter of the shape going through point A as shown in figure 5 line W varies according to the angle  $\beta$  formed between line W and line M. The largest diameter has been found to be formed when  $\beta$  is 55 degrees. The smallest diameter has been found to be formed when  $\beta$  is 0 degrees. It is desired that the difference between the largest and smallest diameter distance going through point A be minimal, and this difference in distance is determined by the size of angle  $\alpha$ . As such, a shape of the chamber formed from an angle  $\alpha$  having a range between 21 to 26 degrees provides an ideal minimal diameter differential range. For the smallest difference in diameter going through point A, an angle  $\alpha$  of 23 degrees should be used as shown in the following computations in Table 1 and Table 2.”

11.) Please delete on page 10, the paragraph beginning with “The present invention...” and ending with “...present invention”, and replace with the following paragraph:

“The present invention can be coupled with most devices which have a rotational movement ~~[[for enhancement]]~~ to assist in driving ~~[[of]]~~ the rotational ~~[[force]]~~ movement of the rotating component. As shown in figure 1, the apparatus is coupled to the rotating blade of a windmill. Figure 1 illustrates just one of many other rotating devices the present apparatus can be coupled to in order to provide ~~[[amplification]]~~ assistance in driving ~~[[of]]~~ the rotating movement. For instance, other rotating devices can include, wheels, mills, propellers, mills, and so on. For use with rotating devices, a frame 40 coupled to the rotating device 45 houses the apparatus of the present invention. “

12.) Please delete on page 10 and 11, the paragraph beginning with “In use...” and ending with “...rotating device 45”, and replace with the following paragraph:

“In use, rotation of the elongated member 20 causes each rod 22 to slide back and forth through the corresponding hole of the elongated member 20. The rod 22 utilizes gravitational downward forces created by the imbalanced position of the rod 22 generated in different rotational positions during a rotational cycle as shown in figure 2. This imbalanced position is created by the sliding motion of the rod 22 and the off-centered position of the elongated member 20. With the staggered position of the rods 22 along the elongated member 20, as one rod 22 pulls downward, another rod 22 follows with an additional downward pull, followed by another downward pull, and this cycle continues with each successive rod 22 and repeats thereafter. With each downward pull, rotational force is provided for rotation of the elongated member 20, which when coupled to a rotating device 45, provides ~~[[amplification]]~~ assistance in driving ~~[[of]]~~ the rotational ~~[[force]]~~ movement of that rotating device 45. In figure 1, an end 47 of the elongated member 20 is connected to the rotating device 45.”